

U.S.S.R. COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS

Cover-to-cover translation of
Zhurnal vychislitel'noi matematiki i matematicheskoi fiziki

INDEX VOLUME 14, 1974

Dear Reader:

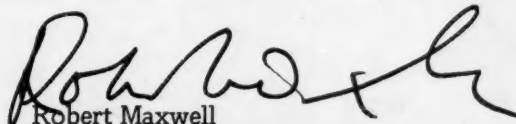
I am pleased to bring to your notice the aims and scope, table of contents and author index of recent issues of this journal. I hope very much that you will be good enough to examine this material and, where necessary (perhaps in consultation with your colleagues) that you will decide to recommend the purchase of a subscription to the journal by your main or departmental library.

If the library in your organization is either a subscriber already or becomes a subscriber then you or your colleagues who may be interested can obtain a personal subscription at a reduced rate.

On the back pages you will also find information about some important reference works, text books and other journals published by Pergamon Press, some of which we hope you will find of interest.

I should welcome suggestions for the publication of new text and reference books, proceedings of timely and important conferences or the commissioning of review articles that may be needed by yourself or colleagues working in your own speciality.

Thank you in advance for your kind consideration for these matters.



Robert Maxwell
Publisher at Pergamon Press



PERGAMON PRESS

OXFORD : NEW YORK : PARIS : FRANKFURT

Vol.
14
1974

U.S.S.R. COMPUTATIONAL MATHEMATICS AND MATHEMATICAL PHYSICS

Cover-to-cover translation of
Zhurnal vychislitel'noi matematiki i matematicheskoi fiziki
Published bi-monthly by Pergamon Press

HONORARY EDITORIAL ADVISORY BOARD

R. A. BROOKER (*Manchester*)

L. FOX (*Oxford*)

D. C. GILLES (*Glasgow*)

A. S. HOUSEHOLDER (*Oak Ridge*)

G. F. J. TEMPLE (*Oxford*)

A. THOM (*Oxford*)

J. H. WILKINSON (*N.P.L., Teddington*)

Scientific Translation Editor:

R. C. Glass, M.A., M.Sc.,
The City University, St. John Street, London, E.C.1.

Translators: J. Berry and D. E. Brown

Publishing, Subscription and Advertising Office:

Pergamon Press Ltd., Headington Hill Hall, Oxford OX3 0BW

Subscription rate \$200.00

Subscriptions are only serviced after payment has been received and
are not accepted for less than one year.
Orders should be sent to the distributors at either of the following addresses:
Headington Hill Hall, Oxford OX3 0BW
Maxwell House, Fairview Park, Elmsford, N.Y. 10523

Microform Subscriptions & Back Issues

Current subscriptions and back files on
microfilm as well as back issues in the regular editions of all
previously published volumes are available from our sole
distributor, Microforms International Marketing Corporation Inc.
(MicroMark) at the most convenient address:
Cowper House, Olney, Bucks., England
Fairview Park, Elmsford, New York 10523, U.S.A.

Copyright © 1975 Pergamon Press Ltd.

PUBLISHED BY

PERGAMON PRESS LTD

OXFORD · NEW YORK · PARIS · FRANKFURT

LIST OF CONTENTS

Number 1

	PAGE
V. G. KARMANOV: Convergence estimates for iterative minimization methods	1
A. V. GONCHARSKII, A. S. LEONOV and A. G. YAGOLA: Finite-difference approximation of linear incorrectly posed problems	14
A. V. KRYANEV: An iterative method for solving incorrectly posed problems	24
I. M. SOBOL: Pseudo-random numbers for constructing discrete Markov chains by the Monte Carlo method	36
V. V. VELICHENKO: The field of extremals method in sufficient conditions for optimality	46
A. S. BRATUS' and F. L. CHERNOUS'KO: Numerical solution of problems of optimal correction when random disturbances are present	69
V. G. KISELEV: A numerical method for the optimal selection of discrete measurements	80
O. A. MALAFEEV: The existence of situations of ϵ -equilibrium in dynamic games with dependent movements	88
A. D. GORBUNOV, T. S. ZVERKINA and V. N. SOKOLIKHIN: Two economical methods for the numerical integration of ordinary differential equations, using a displaced mesh	100
S. V. SIVASHINSKII: A difference method of the projection type for solving the mixed problem for symmetric hyperbolic systems	114
A. I. BOBRIK and V. N. MIKHAILOV: The solution of certain problems for Poisson's equation with boundary conditions of the fourth kind	127
V. B. GLASKO, A. N. TIKHONOV and A. V. TIKHONRAVOV: The synthesis of multilayer coatings	135
E. G. SALTYSKOV: The justification of high-frequency approximations in the problem of wave diffraction by a plane screen	144
A. F. FILIPPOV: Diffraction by a polyhedral angle of a spherical wave gliding along an edge	156
U. M. SULTANGAZIN: Convergence of the method of spherical harmonics for the non-stationary transport equation	165
M. YA. IVANOV and V. P. NAZAROV: Numerical solution of the problem of the "Lateral" interaction of underexpanded supersonic jets of an ideal gas with a plane and with one another	177
E. F. LIMAR, V. V. SVETTSOV and V. P. SHIDLOVSKII: The two-dimensional problem of the expansion of a gas into a vacuum at arbitrary Knudsen numbers	185
V. B. KUDRYAVTSEV: On the functional system $\mathcal{D}\Sigma$	194
<i>Short Communications</i>	
O. A. TIMAN: Some conditions of non-degeneracy for irreducible matrices	204
A. M. CHEBOTAREV: The method of stationary phase for non-differentiable functions	210
A. F. ZABOLOTSKAYA: Acceleration of the convergence of the optimum gradient method in Hilbert space	215
A. M. DENISOV: Approximation of quasi-solutions of some integral equations of the first kind	219
A. V. PROKOPCHENKO: Iterative processes of high orders	229
T. K. VINOGRADOVA and V. F. DEM'YANOV: Necessary conditions in control problems of the minimax type	232

	PAGE
B. V. ALĖSHIN: Application of the averaging method to a system of differential equations	237
P. N. BESARAB: Determination of the parameters of spatial orientation of a moving object	242
D. G. GORDEZIANI and G. V. MELADZE: Simulation of the third boundary value problem for multidimensional parabolic equations in an arbitrary domain by one-dimensional equations	249
S. I. SERDYUKOVA: An example of the difference boundary value problem with an instability of logarithmic type	254
M. M. KARCHEVSKII: Stable iterative methods for solving Neumann type problems	258
V. E. YANITSKII: Application of random walk processes to simulate the free-molecular motion of a gas	264
<i>Scientific Information</i>	
V. M. VASIL'EV, A. L. VOL'PERT and S. I. KHUDYAEV: On the paper "The method of quasi-stationary concentrations for the equations of chemical kinetics"	268
Book Review	269

Number 2

Great Traditions	1
H. SCHWETLICK: Minimization of functions of several variables by derivative-free methods of the Newton type	3
A. P. PETROV and A. V. KHOVANSKII: Estimation of the error of the solution of a linear problem when errors are present in the operators and right-hand sides of the equations	17
A. G. PRUDKOVSKII: The stationary phase method as applied to parametrically dependent integrals (the non-analytic case)	24
N. S. KUKUSHKIN: Equilibrium points in meta-games	38
V. G. RAMM: Application of the cutting plane method to the solution of finite integral games	46
A. P. CHERENKOV: Finding the maximum for some functionals characterizing a distribution of resources	56
A. A. ESIPOV and V. I. YUDOVICH: Asymptotic behaviour of the eigenvalues of the first boundary value problem for an ordinary differential equation in a long interval	67
WANG TAN CHU and S. YA. STEPANOV: Numerical investigation of stability in a finite time interval	76
V. G. OSMOLOVSKII: Asymptotic behaviour of the natural oscillations of an elliptic membrane	91
V. V. EREMIN and YU. M. LIPNITSKII: The construction of multidimensional difference schemes of third-order accuracy	104
M. N. MOSKAL'KOV: The accuracy of difference schemes approximating a wave equation with piecewise-smooth solutions	114
N. I. IONKIN and YU. I. MOKIN: The parabolicity of difference schemes	125
V. P. GORELOV, V. I. IL'IN and V. I. YUFEREV: A synthetic model of neutron moderation and the constant cross-section approximation	141
L. A. LOMAKIN: A model system in the asymptotic theory of streamlining of bodies of revolution by a sonic flow of a real gas	159
I. E. PEDANOV: The solvability of the problem of the membership of a point in an object in a geometric data-processing language	174
G. TS. AKOPYAN: Coverings and matchings of the vertices of a graph by the edges	184

G. F. LOSEV: The best local algorithm for constructing the sum of minimal-essential disjunctive normal forms of a Boolean function, using neighbourhoods of minimal order	193
<i>Short Communications</i>	
T. I. SAVÉLOVA: The application of a class of regularizing algorithms to the solution of integral equations of the first kind of the convolution type in Banach space	202
A. A. MATVEEV: An algorithm for the pseudoinversion of matrices	208
M. I. GIL' and L. L. SHARGORODSKAYA: An approximate method of inverse Laplace transformation for functions of many variables	213
YU. N. KONDYURIN: The error of the Monte Carlo method for evaluating multiple integrals	216
N. N. BUTORIN: Improvement of the accuracy of the Runge-Kutta method	221
F. F. IVANAUSKAS: Investigation of Green's difference function for a wave system with three spatial variables	223
YU. A. EREMIN and A. G. SVESHNIKOV: A numerical algorithm for solving the problem of diffraction by a locally inhomogeneous body	228
A. N. LEBEDEV: Diffraction by a half-plane of surface waves in a viscous fluid	234
A. L. PAVLOV: The scattering of waves excited by localized sources, by an inhomogeneous body	239
V. A. GUSHCHIN and V. V. SHCHENNIKOV: A numerical method of solving the Navier-Stokes equations	242
E. A. TRAKHTENGERTS and A. S. SHUMEI: The existence of precedence functions for phrase structure grammars	251
A. A. ABRAMOV and A. N. GAIPOVA: Remark on the paper "The existence of solutions of some equations containing monotonic discontinuous transformations"	254
Book Reviews	256

Number 3

D. K. FADDEEV and V. N. FADDEEVA: On the solution of linear algebraic systems	1
V. A. VINOKUROV: Regularizability almost everywhere	20
G. M. VAINIKKO: Discretely compact sequences	32
L. F. KORKINA: Estimation of the error when solving incorrectly posed problems	44
YU. M. DANILIN: On a class of minimization algorithms with over-linear convergence	59
V. A. ZHELUDEV: Correctness of the stipulation of a class of equations in convolutions	72
G. N. PYKHTEEV: Approximate evaluation of Cauchy type integrals and singular integrals with logarithmic singularities	93
V. V. BERESNEV and B. N. PSHENICHNYI: The differential properties of minimum functions	101
R. P. FEDORENKO: The approximate solution of variational problems	114
YU. G. EVTUSHENKO: Some local properties of minimax problems	129
N. I. RINGO: The problem of predicting the phase state of linear continuous systems	139
V. V. STRYGIN and A. I. TSYGANKOV: Application of the collocation and difference methods to find the auto-oscillations of differential-difference equations	149
P. M. GUSEINOV and L. A. CHUDOV: An efficient method of constructing Green's function of a second-order elliptic equation	157
S. B. SHIKHOV and L. K. SHISHKOV: Analysis of the neutron transport equation for an infinite energy interval	163
V. V. ALEKSANDROV and O. S. RYZHOV: The non-linear acoustics of a radiating gas—III. The exponential approximation	176
B. S. ELEPOV and G. A. MIKHAILOV: Use of the fundamental solutions of elliptic equations for constructing Monte Carlo algorithms	187

	PAGE
V. L. ARLAZAROV, I. I. ZUEV, A. V. USKOV and I. A. FARADZHEV: An algorithm for the reduction of finite non-oriented graphs to canonical form	195
G. F. LOSEV: Conditionally majorant local algorithms with an arbitrary memory for problems of the synthesis of minimal coverings	202
E. G. KUL'YANOV: Optimization of a class of recognition algorithms	214
<i>Short Communications</i>	
A. N. BOGOLYUBOV and V. I. TELEGIN: A numerical method for solving linear systems of equations with a tridiagonal matrix	225
A. F. TURBIN: Formulas for evaluating semi-inverse and pseudo-inverse of a matrix	230
V. S. GLADKII: Analysis of the errors in the probabilistic rounding of numbers	236
B. M. BUDAK, YU. L. GAPONENKO, G. YU. MALYSHEVA and P. I. RUBAN: A method of solving extremal problems with constraints on the phase coordinates	239
D. A. MOLODTSOV: Convergence of the mesh method in a game theory problem	244
V. K. VIKTOROV: An algorithm for the approximate solution of non-linear boundary value problems	247
V. A. GUSHCHIN and V. V. SHCHENNIKOV: A monotonic difference scheme of second-order accuracy	252
N. V. BELAN, N. A. MASHTYLEV and L. V. SHUSHLYAPIN: Completely conservative difference schemes for two-dimensional magnetohydrodynamic equations	257
V. V. VOINOV, O. V. VOINOV and A. G. PETROV: A method of computing the potential flow round a solid of revolution in an incompressible fluid	263
I. N. NAUMOVA and YU. D. SHMYGLEVSKII: The method of discrete ordinates in the dynamics of the axisymmetric flow of a radiating gas	269
<i>Scientific Information</i>	
V. A. MOROZOV and A. M. DENISOV: All-Union School of Young Scientists "Methods of solving incorrect problems and their application"	274
Book Reviews	275

Number 4

V. A. MOROZOV: An optimality principle for the error when solving approximately equations with non-linear operators	1
G. M. VAINIKKO and O. O. KARMA: The convergence of approximate methods for solving linear and non-linear operator equations	9
M. V. AREF'EVA: Asymptotic estimates for the accuracy of optimal solutions of equations of the convolution type	19
N. N. MOISEEV: Theory of optimal control in an infinite time interval	33
YU. N. PAVLOVSKII: The group properties of controlled dynamic systems and phase organizational structures. I. Groups characterizing dynamic systems	43
L. T. POZNYAK: Evaluation by the Bazley-Fox method of lower bounds for the eigenvalues of some ordinary differential equations	53
A. S. KALASHNIKOV: The propagation of disturbances in problems of non-linear heat conduction with absorption	70
M. E. DMITRENKO and L. A. OGANESYAN: The solution of elliptic equations with discontinuous coefficients on a regular mesh	85
M. I. VOLCHINSKAYA, V. YA. GOL'DIN and N. N. KALITKIN: A comparative study of difference schemes for the equations of acoustics	98
T. A. GERMOGENOVA and N. V. KONOVALOV: Asymptotic characteristics of the solution of the transport equation in the inhomogeneous layer problem	107
A. N. BOGOLYUBOV and A. G. SVESHNIKOV: Investigation of plane waveguides with an inhomogeneous filling using an iterative method	125
L. S. KLABUKOVA and N. A. STADNIKOVA: Analysis of a conical body acted upon by a load concentrated at the apex	133

	PAGE
E. M. SHAKHOV: Solution of axisymmetric problems of rarefied gas theory by a finite-difference method	147
V. YU. LYAPIDEVSKII: The continuous dependence on the initial conditions of the generalized solutions of the gas-dynamic system of equations	158
O. M. BELOTSERKOVSKII, S. D. OSETROVA, V. N. FOMIN and A. S. KHOLODOV: The hypersonic flow of a radiating gas over blunt bodies	168
I. L. BRATCHIKOV and KH. I. TOIRIKH: The formalization of some context conditions of programming languages	179
<i>Short Communications</i>	
O. YU. KUL'CHITSKII and L. I. SHIMELEVICH: Determination of the initial approximation for Newton's method	188
A. YU. AFANAS'EV: The search for the minimum of a function with a bounded second derivative	191
A. V. GONCHARSKII, A. S. LEONOV and A. G. YAGOLA: The regularization of incorrect problems with an approximately specified operator	195
T. I. SAVELOVA: Projection methods for solving linear incorrect equations	201
L. V. SHAROVA: A method of the approximate construction of the solution of integral equations	206
A. I. GAPOVA: Calculation of certain characteristics of stationary stochastic processes	209
N. Z. ALIEV: A variational method in phase space	216
A. F. GAMETSKII, N. V. PRODAN and I. S. CHEBOTAREV: An application of the theory of games with non-antagonistic interests	220
T. N. DANIL'CHENKO and K. K. MOSEVICH: Multistep two-person games with a fixed sequence of moves	224
V. YU. LEBEDEV: An approximate algorithm for the solution of the linear programming problem	230
YU. N. KARAMZIN: Difference schemes for calculating the three-frequency interactions of electromagnetic waves in a non-linear medium with quadratic polarization	236
A. S. IL'INSKI: A method of investigating wave diffraction problems on a periodic structure	242
S. A. ABRAMOV: Solution of linear finite-difference equations with constant coefficients in the field of rational functions	247
Book Reviews	251

Number 5

V. S. GODLEVSKII: On estimates for the distribution of the errors of the solution of systems of linear algebraic and ordinary differential equations	1
YU. N. PAVLOVSKII: The group properties of controlled dynamic systems and phase organizational structures—II. Phase organizational structures	10
FAM HYU SHAK: Invariance in linear abstract processes	20
V. F. DEM'YANOV and A. B. PEVNYI: Expansion with respect to a parameter of the extremal values of game problems	33
A. A. BELOLIPETSKII: The linear time optimal problem with a small parameter	45
YU. G. EVTUSHENKO: Iterative methods for solving minimax problems	52
V. I. PROKOPENKO: Imperfect information about the strategies in two-person games with careful behaviour	63
A. F. KONONENKO: Game-theory analysis of a two-level hierarchical control system	72

	PAGE
R. P. FEDORENKO: Derivation and justification of equations in slow time (the stroboscopic method)	81
E. A. GREBENIKOV and M. N. KIOSA: A numerical method for checking hypotheses regarding the structure of the solutions of differential equations	119
N. V. KONYUKHOVA: The iterative solution of non-linear boundary value problems, selecting small solutions of some systems of ordinary differential equations with a singularity	127
A. M. RADIN and V. P. SHESTIPALOV: Diffraction of a plane wave by a sphere with a circular orifice	137
V. N. DIESPEROV and L. A. LOMAKIN: A boundary value problem for a linearized axisymmetric viscous transonic equation	148
I. L. BARSKII: Asymptotic estimates for the cavitational flow of a jet of finite width past a wedge	164
V. B. GLASKO, G. V. GUSHCHIN, L. G. GUSCHCHINA and E. A. MUDRETSOVA: The use of boring data to reconstruct the shape of a contact by the regularization method	174
N. A. ARKHANGEL'SKII: Numerical solution of the spherical explosion problem allowing for back pressure	183
P. P. KOL'TSOV: The recognition problem with time constraints	192
E. A. DINITS, M. A. ZAITSEV and A. V. KARZANOV: An economical algorithm for distinguishing blocks in a graph	208
<i>Short Communications</i>	
N. P. ZHIDKOV, N. P. ILYSHEVA and D. V. TIMOFEEV: Some numerical methods of designing electrical networks	215
T. N. DANIL'CHENKO and K. K. MOSEVICH: A multistep game of two persons with a "cautious" second player and the sequential transmission of information	222
V. B. VILKOV: The N -kernel in cooperative games without side payments	226
A. B. EFIMOV and V. N. VOROB'EV: A mixed boundary value problem for a harmonic function in a half-space	232
V. M. KRIVTSOV: The effect of selectivity of radiation on the heating of a gas in a cylindrical channel	236
I. S. GRANIK, L. K. MARTINSON and K. B. PAVLOV: Temperature waves in moving media	240
M. I. KAPLUNOV and V. I. FILATOV: A method of reaction to a syntactical error in a syntactically oriented translator	246
E. ZH. AITKHOZHAEVA and V. V. BARASHENKOV: The definition of some operator scheme relations	251
R. A. LUTFULLAEV: An approach to the calculation of the information weights of features	255
Book Reviews	260
Correction	263

Number 6

J. MIKLOŠKO: The numerical computation of three-term recurrence relations and the tridiagonal system of linear equations by the method of shooting	1
G. YA. LYAKHOVETSKII: The escalator method of determining the eigenvalues and eigenvectors of Hermitian matrices, and the successive introduction of the vectors into the principal basis	8
V. A. VINOKUROV and A. K. SHATOV: Estimation of the regularization parameter in non-linear problems	16
G. M. VAINIKKO and O.-O. KARMA: The convergence rate of approximate methods in the eigenvalue problem when the parameter appears non-linearly	23

	PAGE
V. V. NEKRUTKIN: Direct and conjugate Neumann—Ulam schemes for solving non-linear integral equations	39
B. N. PSHENICHNYI and A. A. CHIKRII: The problem of evading contact in differential games	46
A. YA. AZIMOV: A linear differential evasion game with integral constraints on the controls	56
YU. B. GERMEIER and F. I. ERESHKO: Auxiliary payments in games with a fixed sequence of moves	65
A. E. UMNOV: Multi-step linear extrapolations in the method of penalty functions	77
V. R. KHACHATUROV: The combinatoric—approximation method and some of its applications	90
A. V. GULIN: Stability conditions for three-layer difference schemes for the non-stationary Schrödinger equation	112
B. D. MOISEENKO, B. L. ROZHDESTVENSKII and V. K. SIDOROVA: Spectral characteristics of difference schemes and conditions for the numerical simulation of limiting flow regimes of a viscous fluid	124
A. V. LAPIN: Study of the $W^{(2)}_2$ -convergence of difference schemes for quasi-linear elliptic equations	140
T. A. GERMOGENOVA: The discrete spectrum of the characteristic equation of transport theory	149
I. O. VLASOV, A. I. DERZHAVINA and O. S. RYZHOV: An explosion along the boundary of separation between two media	166
A. N. RUMYNSKII and V. P. CHURKIN: The hypersonic flow of a viscous radiating gas about blunt bodies	173
BAKH HUNG KHANG: Some geometrical problems involved in estimating the accuracy of a class of recognition algorithms	189
<i>Short Communications</i>	
V. G. KARMANOV: An approach to the study of the convergence of relaxation minimization processes	199
V. I. MAKKAVEEV and D. N. MOROZOV: An algorithm for computing the Poisson distribution function	205
F. F. IVANAUSKAS: Integral representations of the solution of the wave equation	209
I. A. KRYZHANOVSKII, T. T. PLETNEVA, V. S. SKOPIN and E. D. EIDEL'MAN: A closed solution of an integral equation connected with magnetic sound recording	213
V. M. KRIVTSOV: An approach to the calculation of selective radiation	216
P. I. CHUSHKIN: A detached shock wave in front of a wedge or cone	221
S. S. KAMYININ and N. A. KONOVALOV: A mobile programming system	227
V. I. ISHCHUK: An algorithm for calculating estimates	233
<i>Scientific Information</i>	
G. I. MARCHUK and G. A. MIKHAILOV: On the Fourth All-Union Conference on the Use of Monte Carlo Methods in Computational Mathematics and Mathematical Physics	239
Book Review	241

AUTHOR INDEX

ABRAMOV, A. A. 254 (2)*	BARASHENKO, V. V. 251 (5)*
ABRAMOV, S. A. 247 (4)*	BARSKII, I. L. 164 (5)
AFANAS'EV, A. YU. 191 (4)*	BELAN, N. V. 257 (3)*
AITKHOZHAEVA, E. ZH. 251 (5)*	BELOLIPETSKII, A. A. 45 (5)
AKOPYAN, G. TS. 184 (2)	BELOTSEKOVSKII, O. M. 168 (4)
ALEKSANDROV, V. V. 176 (3)	BERESNEV, V. V. 101 (3)
ALÉSHIN, B. V. 237 (1)*	BESARAB, P. N. 242 (1)*
ALIEV, N. Z. 217 (4)*	BOBRIK, A. I. 127 (1)
AREF'EVA, M. V. 19 (4)	BOGOLYUBOV, A. N. 225 (3)*, 125 (4)
ARKHANGEL'SKII, N. A. 183 (5)	BRATCHIKOV, I. L. 179 (4)
ARLAZAROV, V. L. 195 (3)	BRATUS', A. S. 69 (1)
AZIMOV, A. YA. 56 (6)	BUDAK, B. M. 239 (3)*

* Short Communications

- BUTORIN, N. N. 221 (2)*
- CHEBOTAREV, A. M. 210 (1)*
 CHEBOTAREV, I. S. 220 (4)*
 CHERENKOV, A. P. 56 (2)
 CHERNOUS'KO, F. L. 69 (1)
 CHIKRII, A. A. 46 (6)
 CHUDOV, L. A. 157 (3)
 CHURKIN, V. P. 173 (6)
 CHUSHKIN, P. I. 221 (6)*
 CHU, WANG TAN 78 (2)
- DANIL'CHENKO, T. N. 224 (4)*, 222 (5)
 DANILIN, YU. M. 59 (3)
 DEM'YANOV, V. F. 232 (1)*, 33 (5)
 DENISOV, A. M. 219 (1)*
 DERZHAVINA, A. I. 166 (6)
 DIESPEROV, V. N. 148 (5)
 DINITS, E. A. 208 (5)
 DMITRENKO, M. E. 85 (4)
- EFIMOV, A. B. 232 (5)*
 EIDEL'MAN, E. D. 213 (6)*
 ELEPOV, B. S. 187 (3)
 EREMIN, V. V. 104 (2)
 EREMIN, YU. A. 228 (2)*
 ERESHKO, F. I. 65 (6)
 ESIPOV, A. A. 67 (2)
 EVTUSHENKO, YU. G. 129 (3), 52 (5)
 EVTUSHENKO, YU. G. 52 (5)
- FADDEEVA, V. N. 1 (3)
 FADDEEV, D. K. 1 (3)
 FARADZHEV, I. A. 195 (3)
 FEDORENKO, R. P. 114 (3)
 FEDORENKO, R. P. 81 (5)
 FILATOV, V. I. 246 (5)*
 FILIPPOV, A. F. 156 (1)
 FOMIN, V. N. 168 (4)
- GAIPOVA, A. I. 209 (4)*
 GAIPOVA, A. N. 254 (2)*
 GAMETSKII, A. F. 220 (4)*
 GAPONENKO, YU. L. 239 (3)*
 GERMEIER, YU. B. 65 (6)
 GERMOGENOVA, T. A. 107 (4), 149 (6)
 GIL', M. I. 213 (2)*
 GLADKII, V. S. 236 (3)*
 GLASKO, V. B. 135 (1), 174 (5)
 GODLEVSKII, V. S. 1 (5)
 GOL'DIN, V. YA. 98 (4)
 GONCHARSKII, A. V. 14 (1), 195 (4)*
 GORBUNOV, A. D. 100 (1)
 GORDEZIANI, D. G. 249 (1)*
 GORELOV, V. P. 141 (2)
 GRANIK, I. S. 240 (5)*
 GREBENIKOV, E. A. 119 (5)
 GULIN, A. V. 112 (6)
 GUSEINOV, P. M. 157 (3)
 GUSHCHINA, L. G. 174 (5)
 GUSHCHIN, G. V. 174 (5)
 GUSHCHIN, V. A. 242 (2)*
 GUSHCHIN, V. A. 252 (3)*
- IL'INSKI, A. S. 242 (4)*
- IL'IN, V. I. 141 (2)
 ILYSHEVA, N. P. 215 (5)*
 IONKIN, N. I. 125 (2)
 ISHCHUK, V. I. 233 (6)*
 IVANAUSKAS, F. F. 223 (2)*, 209 (6)*
 IVANOV, M. YA. 177 (1)
- KALASHNIKOV, A. S. 70 (4)
 KALITKIN, N. N. 98 (4)
 KAMYNIN, S. S. 227 (6)*
 KAPLUNOV, M. I. 246 (5)*
 KARAMZIN, YU. N. 236 (4)*
 KARCHEVSKII, M. M. 258 (1)*
 KARMANOV, V. G. 1 (1), 199 (6)*
 KARMA, O. O. 9 (4), 23 (6)
 KARZANOV, A. V. 208 (5)
 KHACHATUROV, V. R. 90 (6)
 KHANG, BAKH HUNG 189 (6)
 KHOLODOV, A. S. 168 (4)
 KHOVANSKII, A. V. 17 (2)
 KIOSA, M. N. 119 (5)
 KISELEV, V. G. 80 (1)
 KLABUKOVA, L. S. 133 (4)
 KOL'TSOV, P. P. 192 (5)
 KONDYURIN, YU. N. 216 (2)*
 KONONENKO, A. F. 72 (5)
 KONOVALOV, N. A. 227 (6)*
 KONOVALOV, N. V. 107 (4)
 KONYUKHOVA, N. V. 127 (5)
 KORKINA, L. F. 44 (3)
 KRIVTSOV, V. M. 236 (5)*, 216 (6)*
 KRYANEV, A. V. 24 (1)
 KRYZHANOVSKII, I. A. 213 (6)*
 KUDRYAVTSEV, V. B. 194 (1)
 KUKUSHKIN, N. S. 38 (2)
 KUL'CHITSKII, O. YU. 188 (4)*
 KUL'YANOV, E. G. 214 (3)
- LAPIN, A. V. 140 (6)
 LEBEDEV, A. N. 234 (2)*
 LEBEDEV, V. YU. 230 (4)*
 LEONOV, A. S. 14 (1), 195 (4)*
 LIMAR, E. F. 185 (1)
 LIPNITSKII, YU. M. 104 (2)
 LOMAKIN, L. A. 159 (2), 148 (5)
 LOSEV, G. F. 193 (2), 202 (3)
 LUTFULLAEV, R. A. 255 (5)*
 LYAKHOVETSKII, G. YA. 8 (6)
 LYAPIDEVSKII, V. YU. 158 (4)
- MAKKAVEEV, V. I. 205 (6)*
 MALAFEEV, O. A. 88 (1)
 MALYSHEVA, G. YU. 239 (3)*
 MARTINSON, L. K. 240 (5)*
 MASHTYLEV, N. A. 257 (3)*
 MATVEEV, A. A. 208 (2)*
 MELADZE, G. V. 249 (1)*
 MIKHAILOV, G. A. 187 (3)
 MIKHAILOV, V. N. 127 (1)
 MIKLOŠKO, J. 1 (6)
 MOISEEV, N. N. 33 (4)
 MOISEENKO, B. D. 124 (6)
 MOKIN, YU. I. 125 (2)
 MOLODTSOV, D. A. 244 (3)*
 MOROZOV, D. N. 205 (6)*
 MOROZOV, V. A. 1 (4)

MOSEVICH, K. K. 224 (4)*, 222 (5)*
MOSKAL'KOV, M. N. 114 (2)
MUDRETSOVA, E. A. 174 (5)

NAUMOVA, I. N. 269 (3)*
NAZAROV, V. P. 177 (1)
NEKRUTKIN, V. V. 39 (6)

OGANESYAN, L. A. 85 (4)
OSETROVA, S. D. 168 (4)
OSMOLOVSKII, V. G. 91 (2)

PAVLOV, A. L. 239 (2)*
PAVLOV, K. B. 240 (5)*
PAVLOVSKII, YU. N. 43 (4), 10 (5)
PEDANOV, I. E. 174 (2)
PETROV, A. G. 263 (3)*
PETROV, A. P. 17 (2)
PEVNYI, A. B. 33 (5)
PLETNEVA, T. T. 213 (6)*
POZNYAK, L. T. 53 (4)
PRODAN, N. V. 220 (4)*
PROKOPCHENKO, A. V. 229 (1)*
PROKOPENKO, V. I. 63 (5)
PRUDKOVSKII, A. G. 24 (2)
PSHENICHNYI, B. N. 101 (3), 46 (6)
PYKHTEEV, G. N. 93 (3)

RADIN, A. M. 137 (5)
RAMM, V. G. 46 (2)
RINGO, N. I. 139 (3)
ROZHDESTVENSKII, B. L. 124 (6)
RUBAN, P. I. 239 (3)*
RUMYNSKII, A. N. 173 (6)
RYZHOV, O. S. 176 (3), 166 (6)

SALTYKOV, E. G. 144 (1)
SAVELOVA, T. I. 202 (2)*, 201 (4)*
SCHWETLICK, H. 3 (2)
SERDYUKOVA, S. I. 254 (1)*
SHAK, FAM HYU 20 (5)
SHAKHOV, E. M. 147 (4)
SHARGORODSKAYA, L. L. 213 (2)*
SHAROVA, L. V. 206 (4)*
SHATOV, A. K. 16 (6)
SHCHENNIKOV, V. V. 242 (2)*, 252 (3)*
SHESTIPALOV, V. P. 137 (5)
SHIDLOVSKII, V. P. 185 (1)
SHIKHOV, S. B. 163 (3)
SHIMELEVICH, L. I. 188 (4)
SHMYGLEVSKII, YU. D. 269 (3)*
SHUMEI, A. S. 251 (2)*
SHUSHLYAPIN, L. V. 257 (3)*
SHISHKOV, L. K. 163 (3)

SIDOROVA, V. K. 124 (6)
SIVASHINSKII, S. V. 114 (1)
SKOPIN, V. S. 213 (6)*
SOBOL', I. M. 36 (1)
SOKOLIKHIN, V. N. 100 (1)
STADNIKOVA, N. A. 133 (4)
STEPANOV, S. YA. 78 (2)
STRYGIN, V. V. 149 (3)
SULTANGAZIN, U. M. 165 (1)
SVESHNIKOV, A. G. 228 (2)*, 125 (4)
SVESHNIKOV, A. G. 125 (4)
SVETTSOV, V. V. 185 (1)

TELEGIN, V. I. 225 (3)*
TIKHONOV, A. N. 135 (1)
TIKHONRAVOV, A. V. 135 (1)
TIMAN, O. A. 204 (1)*
TIMOFEEV, D. V. 215 (5)*
TOIRIKH, KH. I. 179 (4)
TRAKHTENGERTS, E. A. 251 (2)*
TSYGANKOV, A. I. 149 (3)
TURBIN, A. F. 230 (3)*

UMNOV, A. E. 77 (6)
USKOV, A. V. 195 (3)

VAINIKKO, G. M. 32 (3), 9 (4)
VAINIKKO, G. M. 23 (6)
VELICHENKO, V. V. 46 (1)
VIKTOROV, V. K. 247 (3)*
VILKOV, V. B. 226 (5)*
VINOGRADOVA, T. K. 232 (1)*
VINOKUROV, V. A. 20 (3), 16 (6)
VLASOV, I. O. 166 (6)
VOINOV, O. V. 263 (3)*
VOINOV, V. V. 263 (3)*
VOLCHINSKAYA, M. I. 98 (4)
VOROB'EV, V. N. 232 (5)*

YAGOLA, A. G. 14 (1), 195 (4)*
YANITSKII, V. E. 264 (1)*
YUDOVICH, V. I. 67 (2)
YUFEREV, V. I. 141 (2)

ZABOLOTSKAYA, A. F. 215 (1)*
ZAITSEV, M. A. 208 (5)
ZHELUDEV, V. A. 72 (3)
ZHIDKOV, N. P. 215 (5)*
ZUEV, I. I. 195 (3)
ZVERKINA, T. S. 100 (1)